

INCH-POUND

MIL-T-27/159A
20 April 1993
SUPERSEDING
MIL-T-27/159
10 May 1977

MILITARY SPECIFICATION SHEET

TRANSFORMERS AND INDUCTORS
(AUDIO, POWER AND HIGH-POWER PULSE),
INDUCTOR, POWER, TF5S0422

(A)

Inactive for new design after
the date of this specification

This specification is approved for use by all Departments and Agencies of the Department of Defense

The requirements for acquiring the product described herein shall consist of this specification sheet and the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation. MIL-T-27

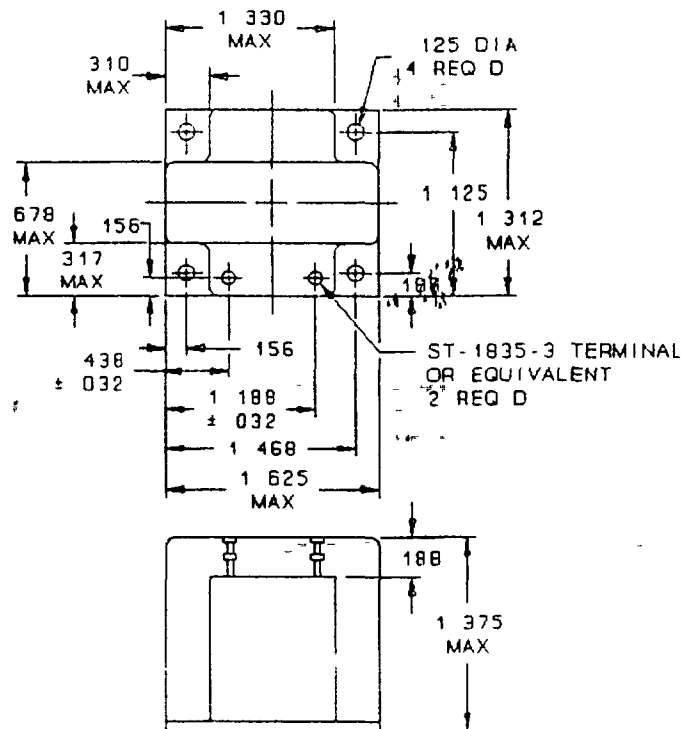


FIGURE 1 Dimensions and configurations

(A)

denotes changes

AMSC N/A

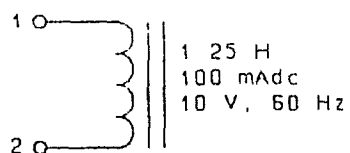
DISTRIBUTION STATEMENT A

1 of 4

Approved for public release, distribution is unlimited

FSC 5950

MIL-T-27/159A



ALTITUDE 100 kFT MAX

WORKING VOLTAGE (PEAK) 357 V

CIRCUIT DIAGRAM AND MARKING

Inches	mm
016	0 41
.032	0 81
125	3 18
156	3 96
188	4 78
310	7 87
317	8 05
438	11 13
678	17 22
1 125	28 58
1 188	30 18
1 312	33 32
1 330	33 78
1 375	34 92
1 468	37 29
1 625	41 28

NOTES.

- 1 Dimensions are in inches
- 2 Metric equivalents are given for general information only
- 3 Unless otherwise specified, tolerance on all dimensions shall be ± 0.16 inch (4.1 mm).
- 4 Marking shall be on the side of the case

FIGURE 1 Dimensions and configurations - Continued

REQUIREMENTS (When numbers in parentheses, i e , (1-2) are used, they indicate the winding and the extreme terminals of the windings)

Electrical ratings

Inductance (1-2) 1.25 H minimum
Voltage (1-2) 10 volts, 60 Hz
Current (1-2) 100 mA dc
DC resistance (1-2) 120 ohms maximum
Working voltage (peak) 357 volts
Power 1.1 watts

Design and construction

Dimensions and configuration See figure 1
Duty cycle Continuous
Case Encapsulated
Material Epoxy
Weight 136 grams, maximum
Terminals Solder terminal, ST-1835-3 or equivalent
Height .188 inch \pm .016
Altitude 100,000 feet maximum
Operating temperature range -55°C to +130°C

Terminal strength MIL-STD-202, method 211, test condition A, 5 pounds

Vibration (high frequency) MIL-STD-202, method 204

Dielectric withstanding voltage

At sea level 1,000 V rms
At barometric pressure 447 V rms

Electrical characteristics

Inductance With 10 volts, 60 Hz across (1-2) and 100 mA dc applied to (1-2) the inductance shall be 1.25 H minimum

Temperature rise 45°C with 10 volts, 60 Hz, 100 mA dc applied to (1-2) at an ambient temperature of 85°C

(A) Quality assurance provisions

Qualification inspection Not applicable for this specification sheet.

Quality conformance inspection Groups A and B tests of MIL-T-27 shall be applicable

MIL-T-27/159A

Marking location See figure 1

Part or Identifying Number (PIN) M27/159-01

CONCLUDING MATERIAL

Custodians

Army - ER
Navy - EC
Air Force - 85

Review activities

Army - MI
Navy - OS, SH
Air Force - 17, 99
DLA - ES

User activities

Army - ME
Navy - AS, MC
Air Force - 19

Preparing activity

Army - ER

Agent

DLA - ES

(Project 5950-0815-13)